

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210360

Luminaire Tested: **ARCH3-100-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10621 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

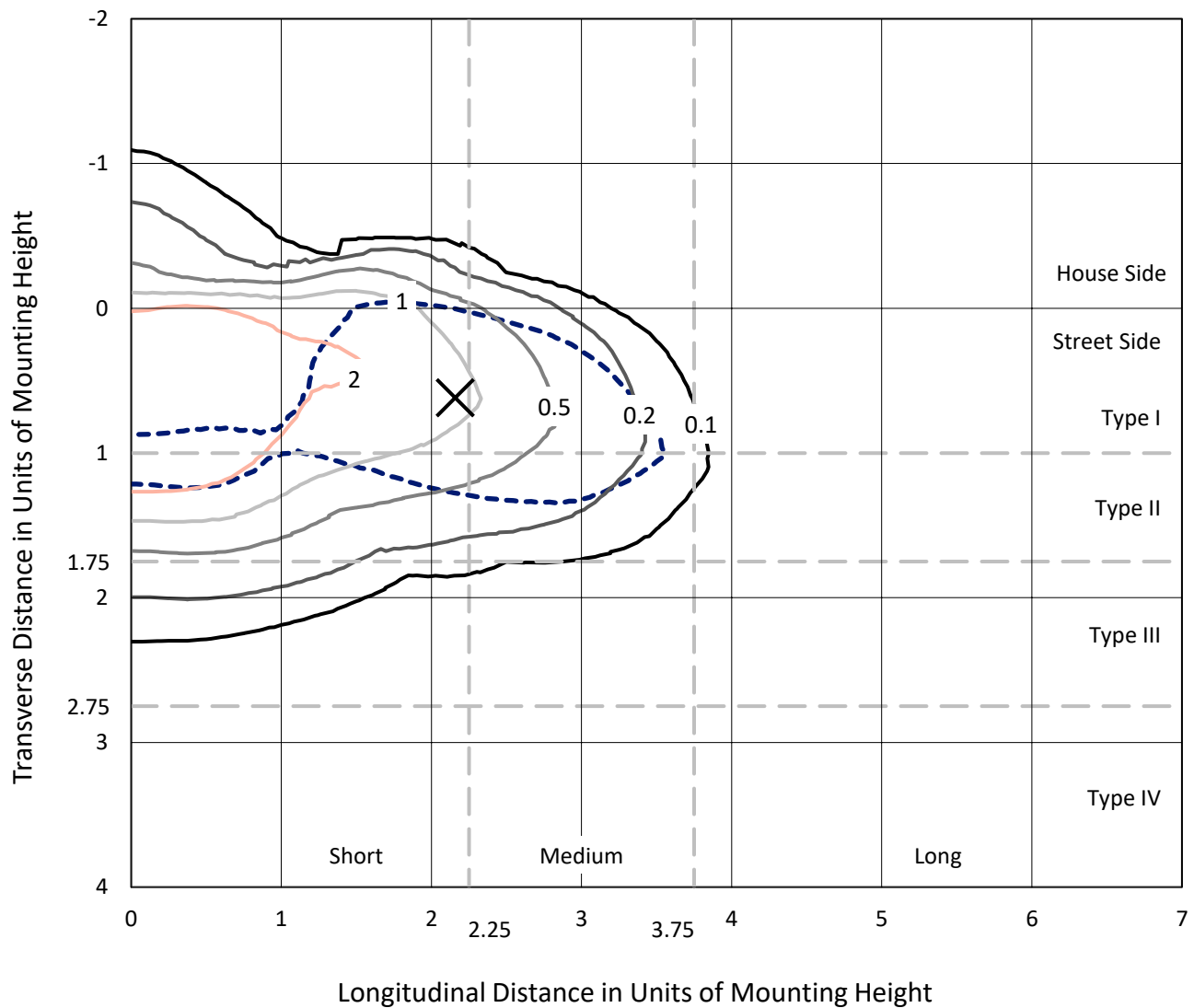
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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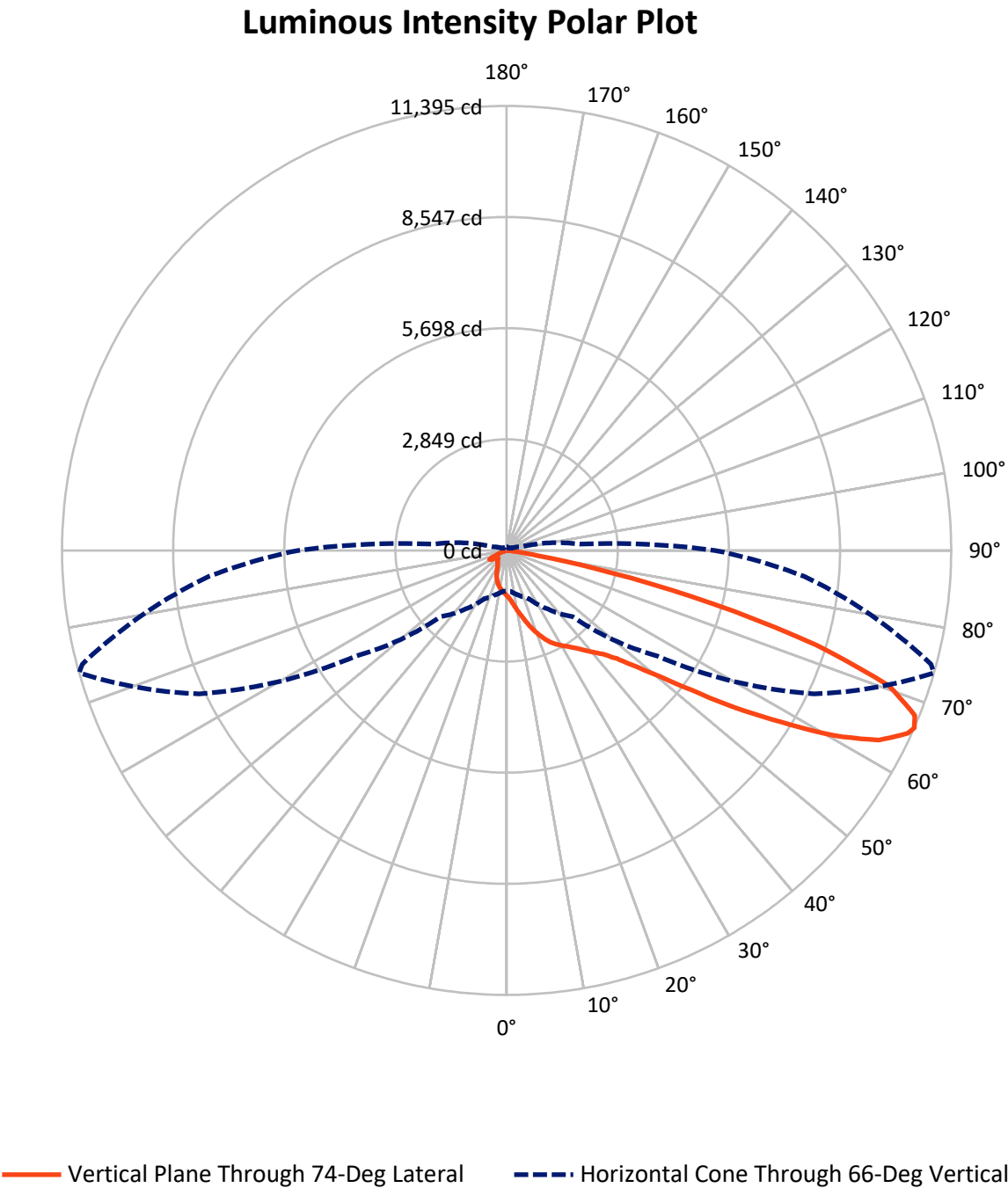
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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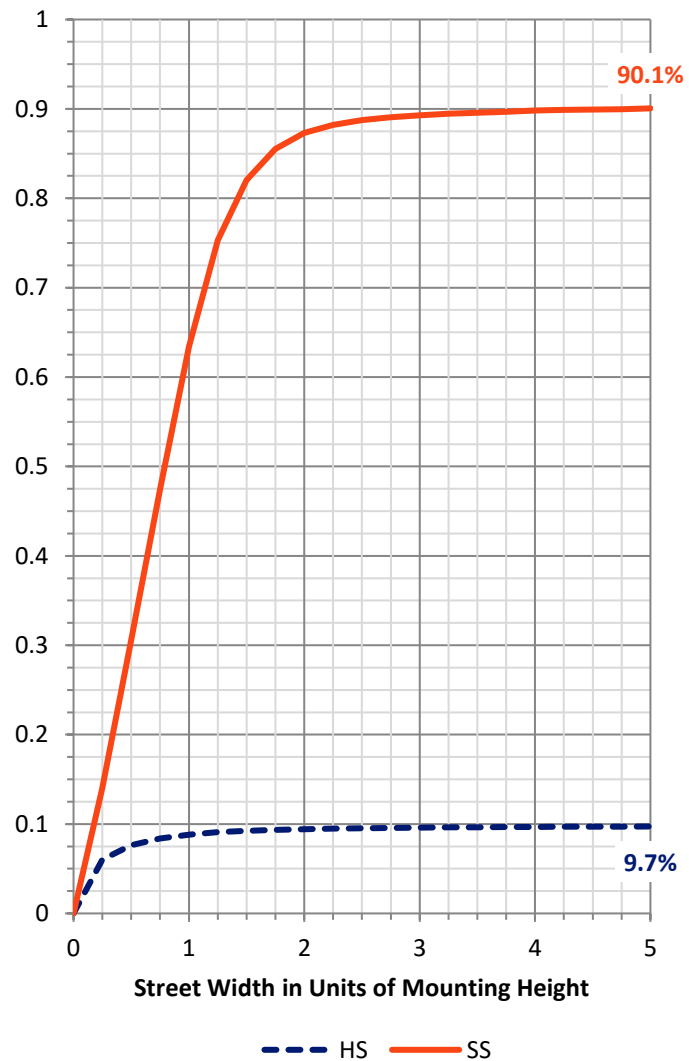
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1041.2	0.0	1041.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9579.8	0.0	9579.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	10621.0	0.0	10621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.1
10°-20°	362.8	3.4
20°-30°	692.3	6.5
30°-40°	1213.5	11.4
40°-50°	2080.8	19.6
50°-60°	2706.3	25.5
60°-70°	2449.9	23.1
70°-80°	945.3	8.9
80°-90°	56.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10621.0	100.0
0°-180°	10621.0	100.0

Coefficient of Utilization



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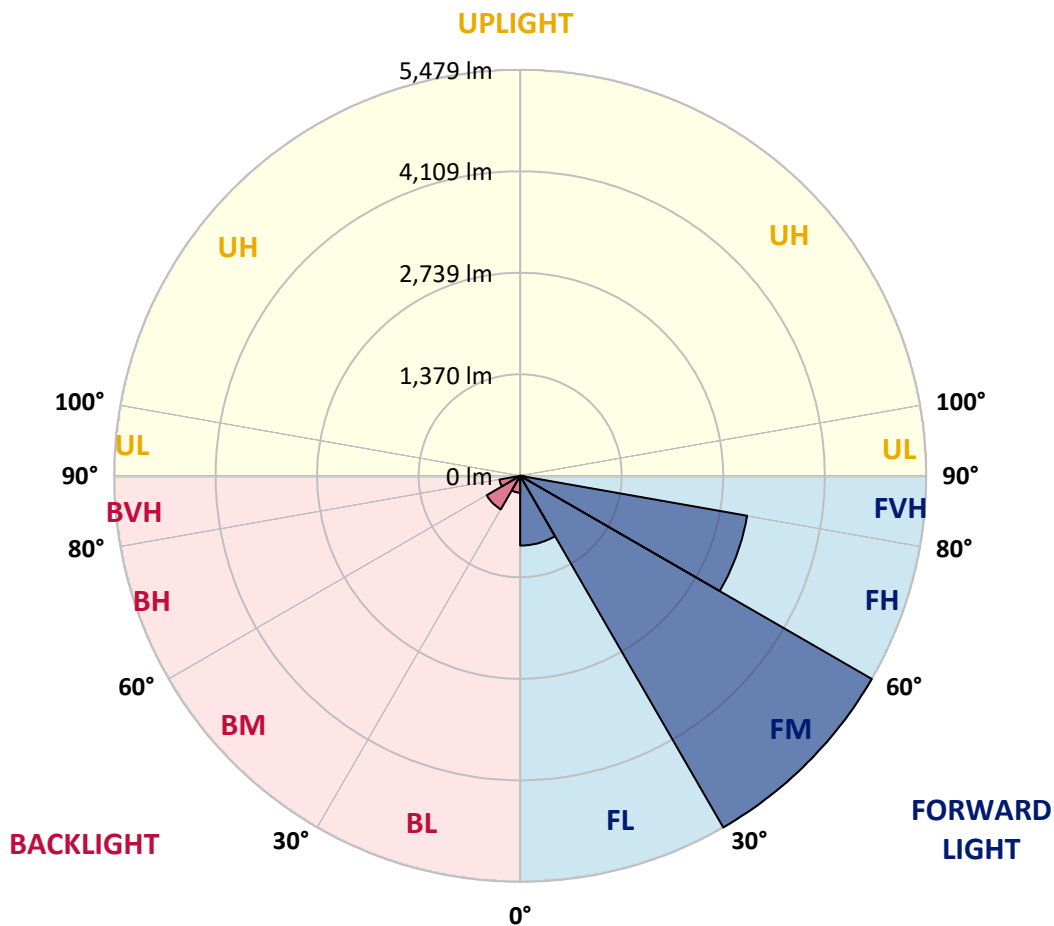
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.2	8.9			
FM	(30°-60°)	5478.8	51.6			
FH	(60°-80°)	3110.5	29.3			G2/5000
FVH	(80°-90°)	49.3	0.5			G1/100
BL	(0°-30°)	227.1	2.1	B1/500		
BM	(30°-60°)	521.8	4.9	B1/1000		
BH	(60°-80°)	284.6	2.7	B1/500		G1/500
BVH	(80°-90°)	7.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4
2.5°	1392.0	1380.6	1359.6	1357.7	1340.5	1319.6	1283.3	1245.2	1218.5	1214.7	1182.3
5°	1666.6	1660.9	1639.9	1626.6	1594.1	1544.6	1460.7	1376.8	1306.2	1298.6	1226.1
7.5°	1739.1	1742.9	1746.7	1760.0	1748.6	1725.7	1662.8	1544.6	1434.0	1416.8	1290.9
10°	1750.5	1746.7	1746.7	1763.9	1796.3	1828.7	1821.1	1720.0	1577.0	1556.0	1380.6
12.5°	1874.4	1880.2	1866.8	1859.2	1853.5	1870.6	1927.8	1884.0	1727.6	1710.5	1489.3
15°	2034.6	2032.7	2013.6	2013.6	1996.5	1967.9	2004.1	2036.5	1908.8	1887.8	1613.2
17.5°	2150.9	2158.6	2156.7	2168.1	2162.4	2124.2	2105.2	2171.9	2095.6	2068.9	1754.3
20°	2244.4	2265.4	2273.0	2309.2	2326.4	2299.7	2250.1	2292.1	2274.9	2250.1	1897.3
22.5°	2343.5	2360.7	2374.0	2437.0	2484.6	2478.9	2416.0	2406.5	2448.4	2425.5	2038.4
25°	2442.7	2450.3	2490.4	2566.6	2642.9	2662.0	2597.2	2522.8	2604.8	2583.8	2164.3
27.5°	2551.4	2555.2	2602.9	2696.3	2803.1	2843.1	2791.7	2654.4	2724.9	2724.9	2278.7
30°	2749.7	2787.8	2806.9	2890.8	2984.2	3039.5	2978.5	2793.6	2831.7	2848.9	2398.8
32.5°	3176.8	3182.6	3176.8	3213.1	3232.1	3264.6	3194.0	2949.9	2940.4	2959.5	2517.1
35°	3829.0	3806.1	3745.1	3691.7	3581.1	3520.1	3428.5	3150.1	3073.9	3100.6	2633.4
37.5°	4620.3	4587.9	4448.7	4284.7	4048.3	3804.2	3689.8	3394.2	3243.6	3277.9	2759.2
40°	5375.5	5354.5	5188.6	4986.5	4582.2	4164.6	3922.4	3600.2	3432.4	3445.7	2887.0
42.5°	5997.1	5993.3	5854.1	5642.4	5123.7	4553.6	4197.0	3802.3	3630.7	3651.6	3020.5
45°	6468.1	6431.9	6328.9	6176.3	5648.1	4957.8	4528.8	4109.3	3949.1	3973.9	3220.7
47.5°	6468.1	6473.8	6540.5	6525.3	6014.3	5337.3	4891.1	4496.4	4420.1	4443.0	3550.6
50°	5941.8	5995.2	6292.7	6542.5	6204.9	5632.9	5282.0	4980.7	5058.9	5093.2	4126.5
52.5°	4900.6	4990.3	5507.0	6077.2	6063.8	5781.6	5686.3	5596.6	5947.5	6008.5	4976.9
55°	3724.1	3783.2	4456.3	5205.7	5449.8	5659.6	6039.0	6378.5	7124.0	7110.7	5840.7
57.5°	2782.1	2837.4	3417.1	4248.5	4570.8	5131.4	6220.2	7272.8	8291.0	8342.5	6651.1
60°	2046.1	2088.0	2581.9	3264.6	3729.8	4322.9	6147.7	8153.8	9635.4	9576.3	7366.2
62.5°	1514.1	1536.9	1893.5	2337.8	2955.6	3522.0	5692.0	8756.3	10709.0	10588.8	7764.8
65°	1170.8	1178.4	1363.4	1599.9	2149.0	2738.3	5013.1	8847.9	11302.0	11174.2	7757.1
66°	1043.1	1048.8	1184.2	1367.2	1828.7	2396.9	4715.7	8701.0	11395.4	11260.0	7661.8
67.5°	875.3	871.4	951.5	1071.7	1372.9	1849.7	4187.5	8272.0	11284.8	11216.2	7356.7
70°	648.3	650.2	690.3	718.9	802.8	1024.0	3024.3	7175.5	10400.0	10396.2	6519.6
72.5°	480.5	486.3	516.8	522.5	501.5	554.9	1742.9	5707.2	8319.7	8321.6	4873.9
75°	360.4	369.9	379.5	383.3	364.2	350.9	787.5	3840.4	5472.7	5432.7	2759.2
77.5°	274.6	278.4	286.0	280.3	276.5	242.2	328.0	1872.5	2702.0	2461.8	894.3
80°	200.2	200.2	207.8	200.2	198.3	173.5	179.2	600.7	793.3	659.8	192.6
82.5°	125.9	123.9	129.7	127.8	123.9	110.6	104.9	167.8	183.1	164.0	93.4
85°	70.6	68.6	66.7	64.8	59.1	49.6	57.2	62.9	83.9	85.8	66.7
87.5°	24.8	24.8	22.9	21.0	17.2	17.2	21.0	21.0	30.5	30.5	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4	1159.4
2.5°	1167.0	1146.0	1115.5	1075.5	1046.9	1018.3	987.8	970.6	945.8	940.1	947.7
5°	1188.0	1149.8	1073.6	989.7	917.2	852.4	791.3	755.1	718.9	705.5	711.3
7.5°	1231.8	1167.0	1037.3	901.9	781.8	684.6	612.1	570.2	537.7	524.4	528.2
10°	1296.7	1197.5	1003.0	802.8	648.3	545.4	484.3	457.6	438.6	431.0	432.9
12.5°	1374.8	1241.4	959.2	703.6	533.9	444.3	415.7	410.0	406.2	402.3	404.3
15°	1462.6	1279.5	907.7	606.4	444.3	394.7	385.2	383.3	381.4	381.4	381.4
17.5°	1554.1	1313.8	850.5	514.9	387.1	364.2	358.5	358.5	358.5	360.4	360.4
20°	1639.9	1340.5	783.7	432.9	354.7	335.6	331.8	331.8	333.7	335.6	335.6
22.5°	1723.8	1352.0	705.5	375.7	328.0	310.8	305.1	305.1	305.1	307.0	307.0
25°	1796.3	1352.0	627.4	339.4	305.1	287.9	280.3	278.4	280.3	280.3	280.3
27.5°	1857.3	1346.2	551.1	314.6	282.2	265.1	257.4	255.5	259.3	261.2	261.2
30°	1922.1	1338.6	490.1	291.8	263.1	246.0	238.4	238.4	244.1	251.7	251.7
32.5°	1985.0	1344.3	442.4	272.7	244.1	230.7	223.1	225.0	236.5	247.9	247.9
35°	2051.8	1355.8	413.8	259.3	230.7	217.4	211.7	217.4	228.8	240.3	240.3
37.5°	2118.5	1369.1	396.6	247.9	219.3	205.9	202.1	209.8	223.1	234.5	236.5
40°	2189.1	1380.6	377.6	236.5	211.7	196.4	194.5	202.1	219.3	230.7	232.6
42.5°	2276.8	1403.5	354.7	226.9	204.0	185.0	186.9	192.6	209.8	226.9	228.8
45°	2448.4	1475.9	331.8	217.4	194.5	179.2	175.4	179.2	198.3	217.4	221.2
47.5°	2770.7	1639.9	307.0	207.8	185.0	175.4	160.2	164.0	181.2	202.1	204.0
50°	3388.5	1988.9	293.7	198.3	177.3	162.1	144.9	144.9	158.3	177.3	177.3
52.5°	4351.5	2614.3	301.3	190.7	167.8	148.7	131.6	129.7	137.3	150.6	150.6
55°	5390.7	3300.8	329.9	183.1	156.4	141.1	122.0	112.5	118.2	125.9	125.9
57.5°	6214.5	3645.9	408.1	179.2	143.0	135.4	110.6	97.3	103.0	110.6	110.6
60°	6576.8	3443.8	495.8	183.1	133.5	125.9	99.2	85.8	95.3	103.0	104.9
62.5°	6283.1	2835.5	532.0	173.5	120.1	112.5	97.3	80.1	91.5	97.3	99.2
65°	5648.1	2154.8	415.7	150.6	110.6	97.3	87.7	76.3	85.8	91.5	91.5
66°	5346.8	1878.3	354.7	139.2	106.8	91.5	83.9	76.3	83.9	87.7	89.6
67.5°	4879.7	1481.6	263.1	122.0	99.2	83.9	78.2	72.5	80.1	83.9	83.9
70°	3815.6	882.9	158.3	95.3	85.8	74.4	70.6	66.7	72.5	74.4	74.4
72.5°	2389.3	419.5	101.1	70.6	72.5	70.6	59.1	62.9	64.8	66.7	66.7
75°	1157.5	165.9	68.6	51.5	59.1	66.7	47.7	55.3	57.2	61.0	59.1
77.5°	322.3	80.1	43.9	38.1	51.5	51.5	36.2	43.9	51.5	64.8	59.1
80°	93.4	51.5	28.6	28.6	36.2	36.2	24.8	30.5	34.3	38.1	40.0
82.5°	64.8	34.3	19.1	21.0	21.0	22.9	15.3	15.3	19.1	19.1	21.0
85°	51.5	15.3	11.4	13.3	9.5	11.4	7.6	7.6	9.5	7.6	7.6
87.5°	21.0	7.6	7.6	7.6	5.7	5.7	3.8	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)